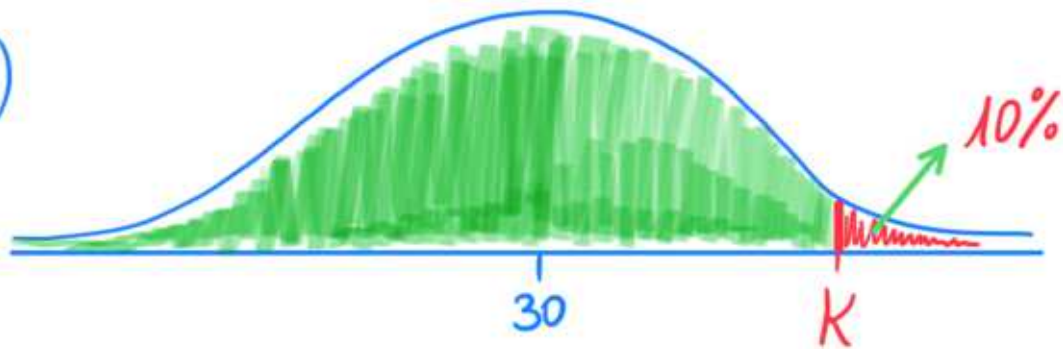


$X = \text{PESO PINGÜINOS MADAGASCAR (Kg)}$

$$X \sim N(30, 3)$$



a)



$$P(X \leq K) = 0.90$$

TIPIFICAMOS
 $Z \sim N(0, 1)$

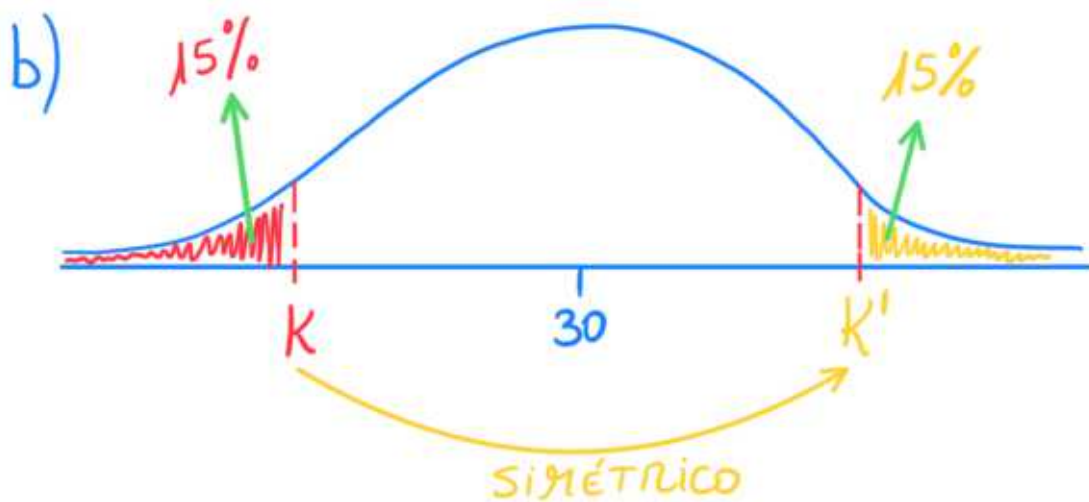
$$P\left(Z \leq \frac{K-30}{3}\right) = 0.90$$

↓ TABLA $N(0, 1)$

$$\frac{K-30}{3} = 1.28$$

$$K = 3 \cdot 1.28 + 30 = 33.84$$

SI UN PINGÜINO PESA 33.84 Kg o más
COMIENZA CON EL REGIMEN ALIMENTICIO.



$$P(X \leq K') = 0.85$$

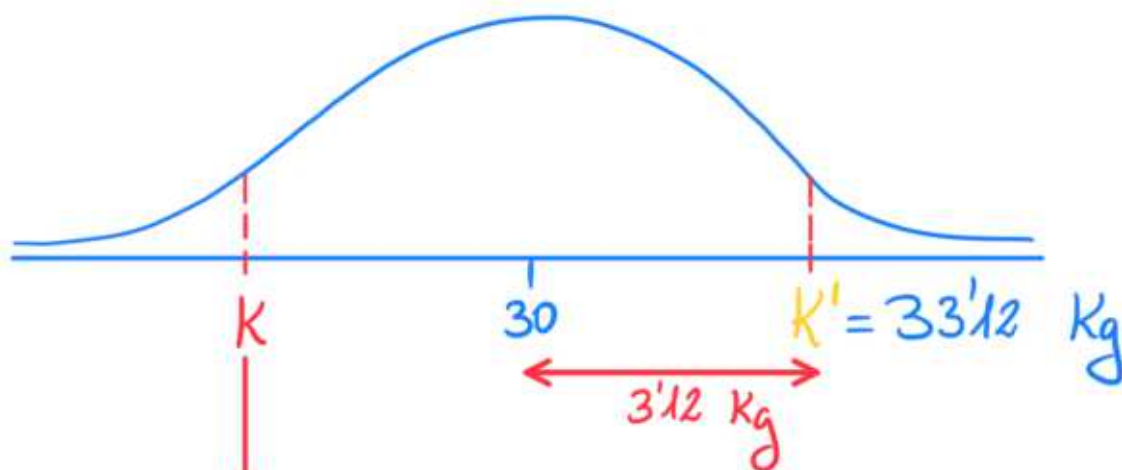
TIPIFICAMOS $X \sim N(0,1)$

$$P\left(Z \leq \frac{K' - 30}{3}\right) = 0.85$$

↓ TABLA $N(0,1)$

$$\frac{K' - 30}{3} = 1.04$$

$$K' = 3 \cdot 1.04 + 30 \rightarrow K' = 33.12$$



$$K = 30 - 3.12 = 26.88 \text{ Kg}$$

Si un Pingüino PESA 26.88 Kg o MENOS SE LE APORTARÁ MÁS ALIMENTACIÓN.